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SHEET 1 OF 4

<b>FORM PTO - 1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>				<b>ATTY DOCKET NO.:</b> <u>CRP-137</u> <b>APPLICANT:</b> <u>David C. Rueger and Marjorie M. Tucker</u> <b>SERIAL NO.:</b> <u>08/822,186</u> <b>FILING DATE:</b> <u>March 20, 1997</u> <b>GROUP:</b> <u>1812</u>					
<b>U.S. PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
AR	AA	4,968,590	11-06-90	Kuberasampath <i>et al.</i>	530	326	04-08-88		
	AB	4,975,526	12-04-90	Kuberasampath <i>et al.</i>	530	350	10-17-89		
	AC	5,011,691	04-30-91	Oppermann <i>et al.</i>	424	423	02-23-89		
	AD	5,013,649	05-07-91	Wang <i>et al.</i>	435	69,1	04-08-88		
AR	AE	5,171,574	12-15-92	Kuberasampath <i>et al.</i>	424	423	02-22-90		
<b>FOREIGN PATENT DOCUMENTS</b>									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
✓ AR	BA	WO 90/11366	4 OCT 90	WO			27 MAR 90		Y
	BB	WO 91/18098	28 NOV 91	WO			15 MAY 91		Y
	BC	WO 91/18558	12 DEC 91	WO			22 MAY 91		Y
	BD	WO 95/16035	15 JUN 95	WO			6 DEC 94		Y
✓ AR	BE	WO 95/24210	14 SEP 95	WO			27 JAN 95		Y
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
AR	CA	Beck <i>et al.</i> , "TGF- $\beta_1$ Induces Bone Closure of Skull Defects," <i>Journal of Bone and Mineral Research</i> , 6(11):1257-1265 (1991).							
	CB	Beck <i>et al.</i> , "The Single Application of TGF- $\beta_1$ Induces Closure of Skull Defects," <i>Journal of Bone and Mineral Research</i> , 6(1):155 (1991).							
AR	CC	Kenley <i>et al.</i> , "Osseous Regeneration in the Rat Calvarium Using Novel Delivery Systems for Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2)," <i>Journal of Biomedical Materials Research</i> , 28:1139-1147 (1994).							
<b>EXAMINER</b> <u>David Rones</u>				<b>DATE CONSIDERED</b> <u>1/4/98</u>					

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U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
AR	AF	5,266,683	11-30-93	Oppermann <i>et al.</i>	530	326	02-21-92		
	AG	5,457,093	10-10-95	Cini <i>et al.</i>	514	12	10-12-93		
	AH	5,468,845	11-21-95	Oppermann <i>et al.</i>	530	387.9	11-01-93		
	AI	5,520,923	05-28-96	Tjia <i>et al.</i>	424	426	09-19-94		
AA	AJ	5,354,557	10-11-94	Oppermann <i>et al.</i>	424	423	12-18-92		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
AR	BF	WO 95/25546	28 SEP 95	WO			23 MAR 95		Y
	BG	WO 96/39169	12 DEC 96	WO			21 MAY 96		Y
AA	BH	WO 96/39170	12 DEC 96	WO			28 MAY 96		Y
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
AR	CD	Cook <i>et al.</i> , "Recombinant Human Bone Morphogenetic Protein-7 Induces Healing in a Canine Long-Bone Segmental Defect Model," <i>Clinical Orthopaedics and Related Research</i> , 301:302-312 (April 1994).							
	CE	Cook <i>et al.</i> , "The Effect of Recombinant Human Osteogenic protein-1 on Healing of Large Segmental Bone Defects," <i>The Journal of Bone and Joint Surgery</i> , 76-A(6):827-838 (June 1994).							
AR	CF	Schmitz and Hollinger, "The Critical Size Defect as an Experimental Model for Craniomandibulofacial Nonunions," <i>Clinical Orthopaedics and Related Research</i> , 205:299-308(1986).							
EXAMINER <u>David R. Rove</u>				DATE CONSIDERED <u>1/4/98</u>					

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<b>U.S. PATENT DOCUMENTS</b>								
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
DR	AK	5,597,897	01-28-97	Ron <i>et al.</i>	530	350	06-22-92	
<b>FOREIGN PATENT DOCUMENTS</b>								
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
DR	BI	WO 96/40297	19 DEC 96	WO		7 JUN 96		Y
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>								
EXAM. INIT.	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>							
DR	CG	Sampath and Reddi, "Homology of bone-inductive proteins from human, monkey, bovine, and rat extracellular matrix," <i>Proc. Natl. Acad. Sci. USA</i> , 80:6591-6595 (November 1983).						
	CH	Vukicevic <i>et al.</i> , "Extracellular Matrix and Bone Morphogenetic Proteins in Cartilage and Bone Development and Repair," <i>Advances in Molecular and Cell Biology</i> , 6:207-224 (1993).						
	CI	Dayhoff <i>et al.</i> , "A Model of Evolutionary Change in Proteins," in <i>5 Atlas of Protein Sequence and Structure Ch. 22, Supp. 3, pp. 345-352</i> , (1978).						
	CJ	Snopek, "Contrast Media" in <i>Fundamentals of Special Radiographic Procedures</i> , (Pennsylvania: Harcourt), pp. 66-76 (1992).						
DR	CK	Carroll, "Patient Status and Contrast Agents" in <i>Fuchs's Radiographic Exposure, Processing and Quality Control</i> , (Charles C. Thomas Publisher: Illinois), pp. 151-154 (1993).						
<b>EXAMINER</b> <u>David Romeo</u>				<b>DATE CONSIDERED</b> <u>1/4/98</u>				

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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
AR	CL	Ehrlich and McCloskey, "Contrast Media and Special Imaging Techniques" in <u>Patient Care in Radiography</u> , (St. Louis: Mosby), pp. 211-254 (1993).	
	CM	LeGeros, "Calcium Phosphate Materials in Restorative Dentistry: A Review," <u>Advances in Dental Research</u> , 2(1):164-180, (August, 1988).	
	CN	Shapiro, "Cell Origin and Differentiation in the Repair of Full-Thickness Defects of Articular Cartilage," <u>The Journal of Bone and Joint Surgery</u> 75-A(4):532-553, April, 1993).	
	CO	Schmitz and Hollinger, "The Critical Size Defect as an Experimental Model for Carniomandibulofacial Nonunions," <u>Clinical Orthopaedics and Related Research</u> , 205:299-308, (April, 1986).	
	CP	Cao <i>et al.</i> , "Water Vapour-Treated Hydroxyapatite Coatings After Plasma Spraying and Their Characteristics," <u>Biomaterials</u> , 17(4):419-424, (1996).	
	CQ	Piatelli <i>et al.</i> , "Clinical and Histologic Aspects of Biphasic Calcium Phosphate Ceramic (BCP) Used in Connection With Implant Placement," <u>Biomaterials</u> , 17(18):1767-1770, (1996).	
	CR	Johnson <i>et al.</i> , "Porous Ceramics as Bone Graft Substitutes in Long Bone Defects: A Biomechanical, Histological, and Radiographic Analysis," <u>Journal of Orthopaedic Research</u> , 14:351-369, (1996).	
AR	CS	LeGeros and Daculsi, "In Vivo Transformation of Biphasic Calcium Phosphate Ceramics: Ultrastructural and Physicochemical Characterizations," in II <u>CRC Handbook of Bioactive Ceramics</u> (CRC Press), pp. 17-28 (1990).	
EXAMINER <i>David Jones</i>		DATE CONSIDERED <i>1/4/98</i>	